



FortiMail 900F

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Register your Fortinet product to receive:

- Technical Support
- New product features
- Protection from new threats

Vous devez enregistrer le produit pour recevoir:

- Support technique
- Nouvelles fonctionnalités du produit
- Protection contre de nouvelles menaces

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- Supporto Tecnico
- Nuove funzionalità
- Protezione dalle ultime minacce

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本日、フォーティネット製品の登録をしてください。

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テクニカルサポート・新機能の追加・新しい脅威への防御

请马上注册

您的飞塔产品

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October 10, 2018

06-603-291240-20181010

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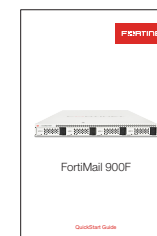
Box Includes



FortiMail 900F



2 Power Cables



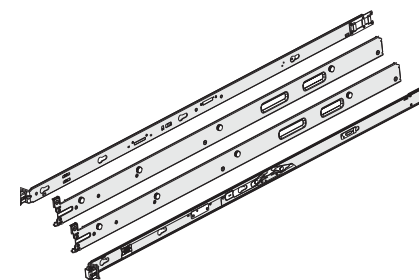
QuickStart Guide



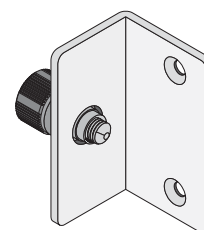
Ethernet Cable



Console Cable



Rail Mount Kit

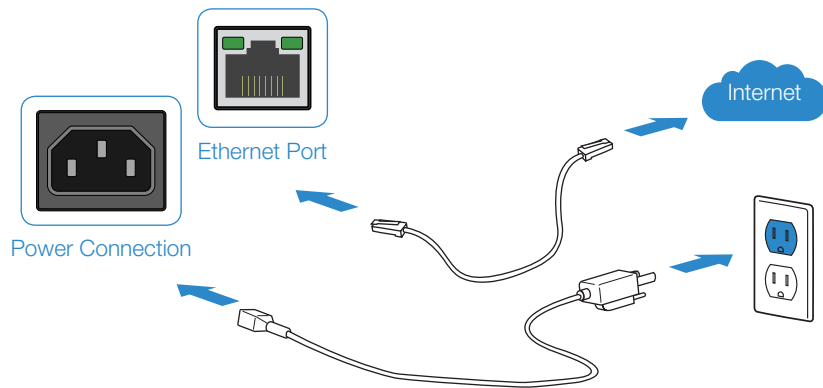


2 Rack Mount Bracket



2 M3 Bracket Screws

1 Basic Connections



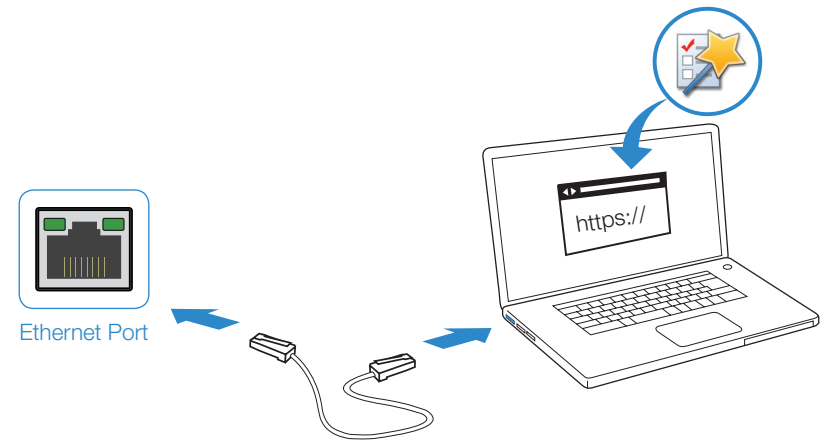
Connect your device to a [power outlet](#) and an [Internet connection](#). This is usually a modem, but could also be another device on your network.

2 Setup Options

A Web Browser
Setup Wizard (p.7)

B Terminal Emulation
With console cable (p.8)

A Web Browser



To Connect to the GUI

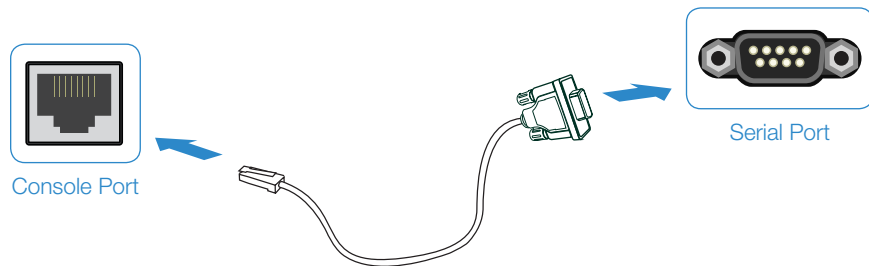
1. Connect the [Ethernet cable](#).
2. Configure the management computer to be on the same [subnet](#) as the internal interface as the FortiMail unit:

IP address: 192.168.1.X

Netmask: 255.255.255.0

3. Visit <https://192.168.1.99/admin> in your web browser.
4. Login using username "[admin](#)" and [no password](#).
5. [Configure your device](#) and save your settings.
6. [Register your device](#) from the dashboard page.

B Terminal Emulation



To Connect to the CLI

1. Connect the device's [console port](#) to the management computer using the provided [console cable](#).
2. Start a [terminal emulation program](#) on the management computer, select the [COM port](#), and use the following settings:

Baud Rate: 9600
Data bits: 8
Parity: None
Stop bits: 1
Flow Control: None

3. Press [Enter](#) on your keyboard to [connect to the CLI](#).
4. Login using username "[admin](#)" and no password. You can now proceed with configuring your device.

3 Installation

The FortiMail unit can be mounted in any standard [19 inch rack](#) unit with the provided mounting hardware.

Please also read "Cautions and Warnings" on page 18 prior to installing your device.

Caution: The rack must be [stabilized](#) before sliding the unit out for servicing. Failure to stabilize may cause the rack to tip over.

Electrostatic discharge ([ESD](#)) can damage your Fortinet equipment.

To avoid [personal injury](#) or damage to the unit, it is recommended that [two or more](#) people install the unit into the rack.

Do not place [heavy objects](#) on the unit.

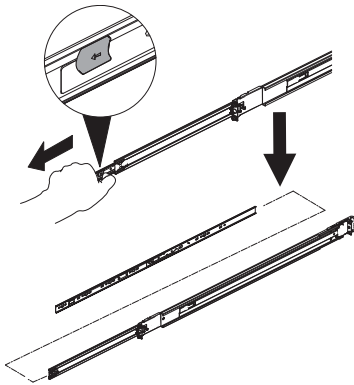
Rack Precautions

- Ensure the [leveling jacks](#) on the bottom of the rack are [fully extended](#) to the floor with the full weight of the rack resting on the jacks.
- For single rack installation, [stabilizers](#) should be attached to the rack.
- For multiple rack installations, the racks should be [coupled together](#).
- Ensure the rack is [stable](#) before extending a component from the rack.
- Only extend [one component](#) at a time; extending [two or more](#) simultaneously may cause the rack to become [unstable](#).

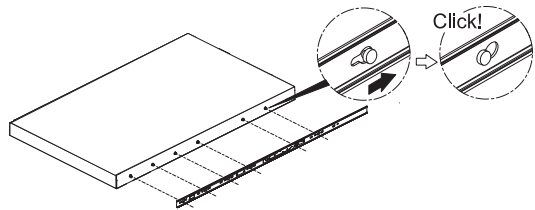
Note: After installing the device into the rack, install the hard disk drives into the device.

To install the unit into a rack

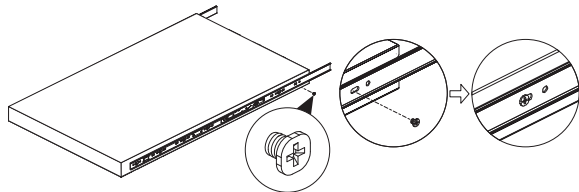
1. Ensure that the FortiMail unit is placed on a stable surface prior to [rack-mount](#) installation.
2. Release and detach the [inner rail](#) from the [outer rail](#).



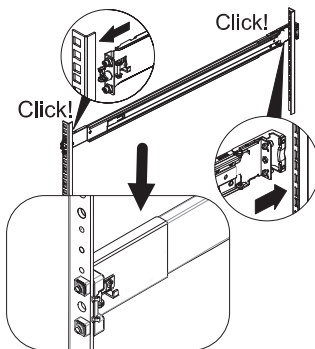
3. Attach the [inner rails](#) to the sides of the unit.



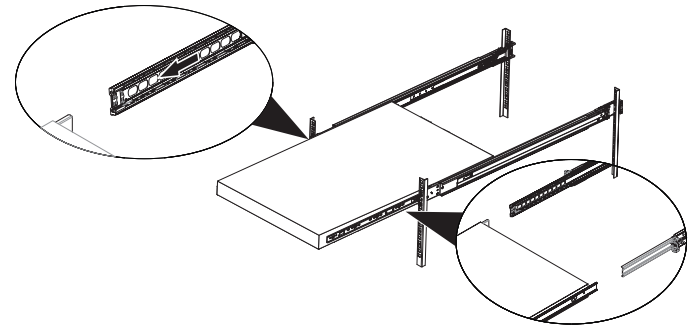
4. Optionally, use a screw to fasten the inner rail to the unit.



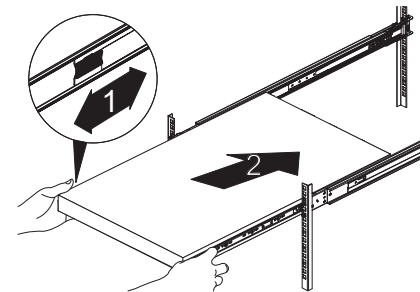
5. Attach the [outer rails](#) to the rack.



6. Verify that the ball bearing retainer is locked forward, align the inner rails with the outer rails, then slide the device halfway onto the rails.



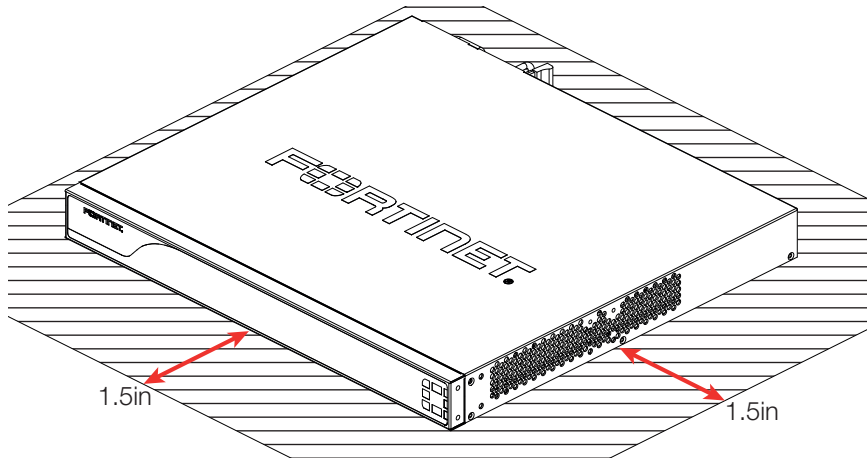
7. Attach the rack mount brackets to the device using the provided bracket screws.
8. Slide the [release tabs](#) on both sides at the same time, then push the device all the way into the rack.
When the unit has been completely pushed into the rack, the [release tabs](#) will click into the locked position.



9. Screw the brackets into the rack to secure the device.
10. Plug the supplied [power cables](#) into the rear of the unit and then into [grounded electrical outlets](#) or [separate power sources](#), such as uninterruptible power supplies (UPS) or power distribution units (PDU).

To install the unit on a flat surface

1. Ensure that the surface onto which the FortiMail unit to be installed is clean, level, and stable and that there is at least **1.5in (3.8cm)** of clearance on all sides to allow for adequate airflow.
2. Attach the provided **rubber feet** to the bottom of the FortiMail unit.
3. Place the unit in the designated location.
4. Verify that the spacing around the FortiMail unit conforms to requirements and that the unit is **level**.



5. Plug the supplied **power cables** into the rear of the unit and then into **grounded electrical outlets** or **separate power sources**, such as uninterruptible power supplies (UPS) or power distribution units (PDU).



HDD

- **Green:** Hard disk detected
- **Off:** Hard disk not detected

HDD Activity

- **Flashing Amber:** Hard disk active
- **Off:** Hard disk idle

HDD Status

- **Red:** Hard disk failure
- **Off:** Normal Operation

SFP Ports Link

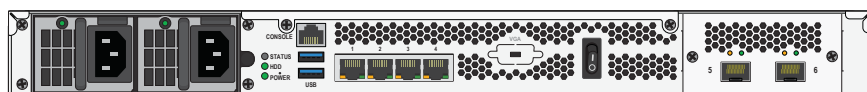
- **Amber:** Link established
- **Off:** No link established

SFP Ports Activity

- **Flashing Green:** Transmitting & receiving data
- **Off:** No link established

Power Supply

- **Green:** Power supply functioning properly
- **Off:** Power supply is off



Status

- **Red:** System failure
- **Off:** System running normally

HDD

- **Green:** Hard disk active
- **Off:** Hard disk idle

Power

- **Green:** The unit is on
- **Off:** The unit is off

Ethernet Ports Speed

- **Amber:** Connected at 1Gbps
- **Green:** Connected at 10/100Mbps
- **Off:** No link established

Ethernet Ports Link/Activity

- **Flashing Green:** Transmitting & receiving data
- **Off:** No link established



HDD

Two 2TB hard drives and two additional hard drive slots

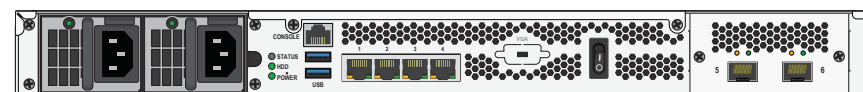
SFP Ports 5 and 6

1 Gbps small form-factor pluggable transceiver ports

Power

100-240V AC, 5-2.5A, 50/60Hz
300W redundant power supplies (1 + 1)

Power Switch



USB (USB A)

Not in use

Ethernet Ports 1 - 4 (RJ-45)

Gigabit Ethernet network connections

Console

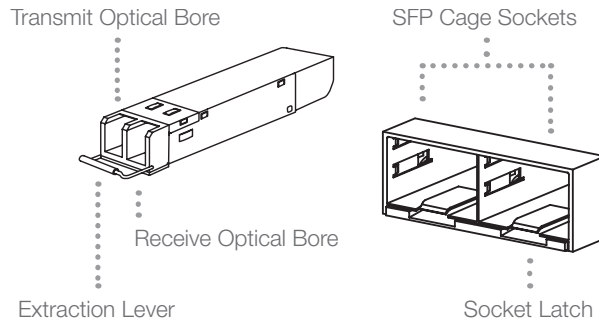
Optional connection to the management computer
Provides access to the CLI

SFP Transceivers

Caution: SFP transceivers are static sensitive devices. Use an ESD wrist strap or similar grounding device when handling transceivers.

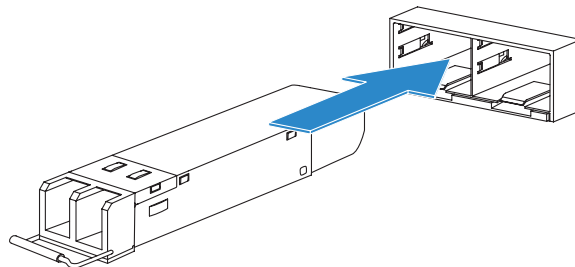
Do not force the SFP transceivers into the cage slots. If the transceiver does not easily slide in and click into place, it may not be aligned correctly or may be upside down. If this happens, remove the SFP transceiver, realign it or rotate it and slide it in again.

Note: Installing and removing SFP transceivers can shorten their useful life. Do not install or remove transceivers more than is necessary.



To install the SFP transceivers

1. Ensure that you are properly grounded.
2. Remove the caps from the SFP cage sockets on the front panel of the unit.
3. Position the SFP transceiver in front of the cage socket opening and ensure that the transceiver is correctly oriented. When the transceiver is correctly oriented, the extraction lever will be level with the socket latch.
Note: SFP cage socket orientation may vary. Ensure that the SFP transceiver module is correctly oriented each time that you are inserting a transceiver.
4. Hold the sides of the SFP transceiver and slide it into the cage socket until it clicks into place.

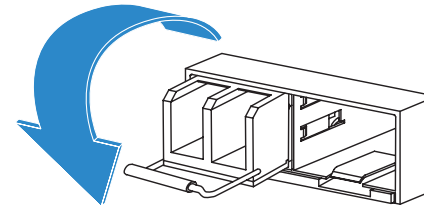


5. Press the transceiver firmly into the cage socket with your thumb.

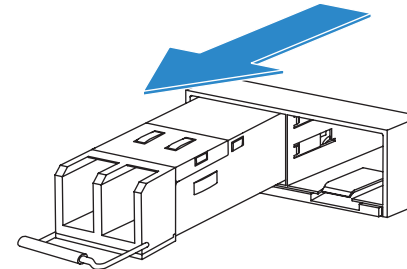
6. Verify that the transceiver is latched correctly by grasping the sides of the transceiver and trying to pull it out without lowering the extraction lever. If the transceiver cannot be removed, it is installed and latched correctly. If the transceiver can be removed, reinsert it and press harder with your thumb. If necessary, repeat this process until the transceiver is securely latched into the cage socket.

To remove the SFP transceivers

1. Ensure that you are properly grounded.
2. If applicable, disconnect the fiber-optic cable from the transceiver connector and install a clean dust plug in the transceiver's optical bores.
3. Pull the extraction lever out and down to eject the transceiver. If you are unable to use your finger to open the lever, use a small flat-head screwdriver or other similar tool to open the lever.



4. Hold the sides of the transceiver and carefully pull it away from the cage socket.



5. Replace the cap on the SFP cage socket and place the removed SFP transceiver into an antistatic bag.

Caution: Do not install or remove SFP transceivers while fiber-optic cables are still attached. This can cause damage to the cables, cable connectors, and the optical interfaces. It may also prevent the transceiver from latching correctly into the socket connector.

Note: Follow proper fiber-optic handling procedures when installing and removing SFP transceivers to ensure the devices remain clean and are not damaged.

Cautions and Warnings

Environmental Specifications

Ambient operating temperature: 0C to 40C

Rack Mount Instructions - The following or similar rack-mount instructions are included with the installation instructions:

Instructions de montage en rack - Les instructions de montage en rack suivantes ou similaires sont incluses avec les instructions d'installation:

Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer.
Température ambiante élevée – S'il est installé dans un rack fermé ou à unités multiples, la température ambiante de fonctionnement de l'environnement du rack peut être supérieure à la température ambiante de la pièce. Par conséquent, il est important d'installer le matériel dans un environnement respectant la température ambiante maximale (Tma) stipulée par le fabricant.

Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.
Ventilation réduite – Installation de l'équipement dans un rack doit être telle que la quantité de flux d'air nécessaire au bon fonctionnement de l'équipement n'est pas compromise.

Mechanical Loading - Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
Chargement Mécanique – Montage de l'équipement dans le rack doit être telle qu'une situation dangereuse n'est pas liée à un chargement mécanique inégal.

Circuit Overloading - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.
Surtension – Il convient de prendre l'ensemble des précautions nécessaires lors du branchement de l'équipement au circuit d'alimentation et être particulièrement attentif aux effets de la suralimentation sur le dispositif assurant une protection contre les courts-circuits et le câblage. Ainsi, il est recommandé de tenir compte du numéro d'identification de l'équipement.

Reliable Earthing - Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).
Fiabilité de la mise à la terre– Fiabilité de la mise à la terre de l'équipement monté en rack doit être maintenue. Une attention particulière devrait être accordée aux connexions d'alimentation autres que les connexions directes au circuit de dérivation (par exemple de l'utilisation de bandes de puissance).

Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude)

Référez à la Fiche Technique de ce produit pour les caractéristiques environnementales (Température de fonctionnement, température de stockage, humidité et l'altitude).

Safety

Warning: Equipment intended for installation in Restricted Access Location.
Avertissement: Le matériel est conçu pour être installé dans un endroit où l'accès est restreint.

Battery – Risk of explosion if the battery is replaced by an incorrect type. Do not dispose of batteries in a fire. They may explode. Dispose of used batteries according to your local regulations. IMPORTANT: Switzerland: Annex 4.10 of SR814.013 applies to batteries.

Batterie – Risque d'explosion si la batterie est remplacée par un type incorrect. Ne jetez pas les batteries au feu. Ils peuvent exploser. Jetez les piles usagées conformément aux réglementations locales. IMPORTANT: Suisse: l'annexe 4.10 de SR814.013 s'appliquent aux batteries.

警告
本電池如果更換不正確會有爆炸的危險
請依製造商說明書處理用過之電池

Caution: Disconnect power supply cords before servicing.
Attention: Débranchez les cordons de la source d'alimentation avant tout entretien.

Caution: Slide/rail mounted equipment is not to be used as a shelf or a work space.
Attention: Un équipement monté sur bâti ne doit pas être utilisé sur une étagère ou dans un espace de travail.

Regulatory Compliance

Federal Communication Commission (FCC) - USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received; including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

WARNING: Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

CAN ICES-3 (A) / NMB-3 (A)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Cet appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

European Conformity (CE) - EU

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



Voluntary Control Council for Interference (VCCI) – Japan

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V C C I – A

Product Safety Electrical Appliance & Material (PSE) - Japan

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Bureau of Standards Metrology and Inspection (BSMI) – Taiwan

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Version 2.1, February 1999

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.) Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for your own use and reverse engineering for debugging such modifications. You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable. It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, and explaining where to find the accompanying uncombined form of the same Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same portion.

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